



BF 01

High-strength fibre-reinforced cementitious plaster.



Product description

Dry premix based on selected aggregate in a suitably recomposed grain size curve of 0 to 3 mm, cement binder, fibres, pumping and workability enhancing additives.

Supply and Storage

BF 01 is supplied loose in a 22 m³ silo system or in 25 kg bags.

Fields of application

BF 01 is a concrete mix that can be pumped with plastering machines (screw and piston pumps). It can be applied indoors and outdoors on substrates such as bricks, blocks and plaster-holding mesh, in any case in all cases of walls requiring the use of thick reinforced plaster. Concrete surfaces must be previously reinforced with electro-welded mesh firmly anchored to the substrate. It must not be applied on gypsum, painted or inconsistent and crumbling supports.

BF 01

Media preparation

The surface to be treated must be free of dust, crumbling or loose parts and/or polluting elements (oil, grease, etc.). Highly absorbent surfaces and/or surfaces with irregularities greater than 2 cm must be prepared at least 24-48 hours in advance by filling with BF 01.

For use as reinforced plaster, use an electro-welded mesh (or similar) that must be adequately anchored to the substrate and positioned at least 1 cm from it.

For applications on mixed structures (e.g. concrete structure and brickwork infill), the mesh must be mechanically bound to the concrete and must extend at least 30 cm over the brickwork surface; it is also recommended that the concrete surface be adequately prepared, for this purpose and for applications on particular substrates, contact our Technical Department.

Methods of application

After positioning the corner protectors, preferably with the same BF 01, apply the product for a maximum thickness of about 1.5 cm per coat, allowing 24-48 hours to pass between coats (depending on weather conditions).

Given the high mechanical resistance and the fields of application of BF 01, it must be allowed to cure properly (1 week per cm and in any case not less than 3 weeks) before any finishing or coating is applied.

Specifications

The substrates to be plastered must be clean, stable, possibly moistened and have a homogeneous surface. Any loose parts must be removed or consolidated. The surfaces prepared in this way can be plastered using a piston or screw-type plastering machine with Grigolin's Fornaci Calce BF 01 concrete, a dry premix based on selected inert materials, cement binder, fibres and specific additives to improve workability, with an estimated yield of 19 Kg/sq.m. per 1 cm of thickness.

Warnings

Do not mix BF01 with other substances. Avoid strong temperature changes during the setting phase.

The product must be protected against frost and rapid drying. Do not use BF01 at temperatures below +5°C or above +30°C. For large surfaces, it is advisable to make fractioning joints and to respect any pre-existing joints. If it is used as a support for laying ceramic tiles, the surface must not be scuffed, but tightened (compacted) with a trowel.

BF 01

TECHNICAL DATA according to standard UNI EN 998-1 and UNI EN 998-2	PERFORMANCE
Apparent density	1500 kg/m ³ approx. deter. in cad. lib.
Maximum inert diameter	3 mm
Mixing water	17-18%
Theoretical yield	Approx. 19 kg/m ² for thickness 1 cm
Mechanical flexural strength at 28 days	≥ 6 N/mm ²
Compression mechanical res. at 28 days	≥ 20 N/mm ²
Water vapour permeability μ	30
Adhesion on brick	≥ 1.0 N/mm ²
Fracture type (FP)	B
Water absorption	W1
Reaction to fire	class A1
Plastic collection	Absent under standard thermo-hygom conditions
Compressive modulus of elasticity at 28 days	13±1 GPa
Thermal conductivity	0.90 W/mK

v. 05/2021